



SPYWOLF

Security Audit Report



Completed on
June 28, 2022

MADE IN USA 

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **Stranger Things** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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Stranger Things



PROJECT DESCRIPTION

According to their whitepaper:

Stranger Things is the first Project based on Stranger Things Netflix Serie – one of the top 4 series in audience around the world!

The season four – part II – will be released on July, 1st – so Stranger Things Token can profit from this hype – using the strength of the communities and fans around the world.

Future development of the project will be as follows:

- NFTs Staking
- Gaming NFTs
- Play to earn game

Release Date: June 27, 2022

Category: NFT



CONTRACT INFO

Token Name

Stranger Things Token

Symbol

STTOKEN

Contract Address

0x42Db73Ed3c94c635026cf378EEB5Dec7F1b12784

Network

Binance smart chain

Language

Solidity

Deployment Date

June 25, 2022

Verified?

Yes

Total Supply

100,000,000,000

Status

Launched

TAXES

Buy Tax

11%

Sell Tax

11%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



CURRENT STATS

(As of June 28, 2022)



Liquidity

PancakeSwap:
126 WBNB



Burn

78% of total
supply

Status:
Launched!

MaxSellTxAmount
100,000,000

DEX:
PancakeSwap

LP Address(es)

Pancakeswap:

0x55140a437f7bFeA37be18a6770BCAB209dD64E06

92.59% locked in PinkLock - unlocks at July 27, 2022

<https://www.pinksale.finance/pinklock/record/1012151?chain=BSC>

Locked Wallets

0x42f45F6676538D96db74E32f23e4153e22Fe1205

5% of total supply locked in PinkLock

unlocks at June 29, 2022 12:00:00 AM GMT

<https://www.pinksale.finance/pinklock/record/1012147?chain=BSC>



TOKEN TRANSFERS STATS

Transfer Count	5294
Uniq Senders	467
Uniq Receivers	889
Total Amount	238640291642.3054 STTOKEN
Median Transfer Amount	300040.4594175808 STTOKEN
Average Transfer Amount	45077501.254685566 STTOKEN
First transfer date	2022-06-25
Last transfer date	2022-06-28
Days token transferred	3

SMART CONTRACT STATS

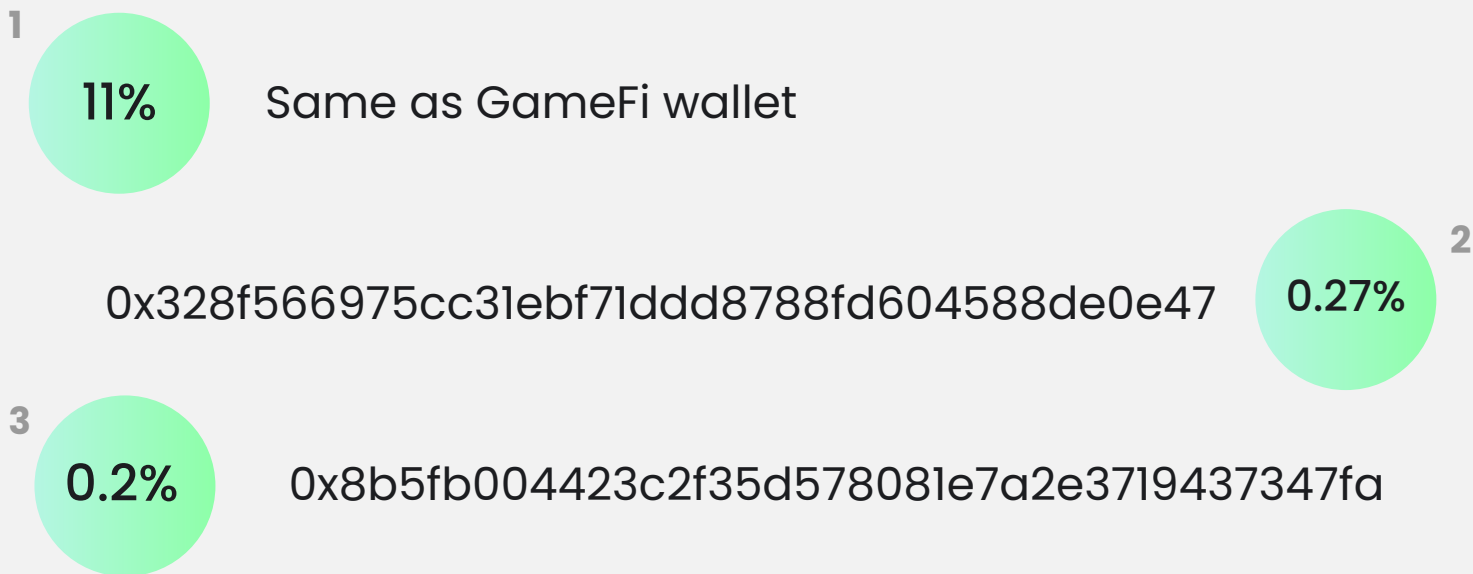
Calls Count	7592
External calls	603
Internal calls	6989
Transactions count	2714
Uniq Callers	597
Days contract called	3
Last transaction time	2022-06-28 08:32:27 UTC
Created	2022-06-25 22:47:47 UTC
Create TX	0xfed276686c9270bbd1f1f96f7ff6387bf8c12b cf8e339df0d21853be0e65154b
Creator	0x42f45f6676538d96db74e32f23e4153e22fe1 205



FEATURED WALLETS

Owner address	0x42f45f6676538d96db74e32f23e4153e22fe1205
Marketing wallet	0x6BD536F157c51F57bEDF4E67A22fe01F138BBB6C
Dev wallet	0x3e4088966CFB38e4B7ad41fcbABB0c025c9Db57A
Buyback wallet	0xAe1A97F2838eE28ccFb1Ddd6A0D2BcF291772A13
LP wallet	0x000c0966A4Dd6A328aCe52c0476b3A7439C7677e
GameFi wallet	0x0A2b276eBcbDb45Ea024C0cbb4d04291b7502928
LP address	Liquidity not added yet

TOP 3 UNLOCKED WALLETS





VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ High Risk

Owner can blacklist any address, making it impossible to sell.

```
function updateIsBlacklisted(address account, bool state) external onlyOwner {
    isBlacklisted[account] = state;
}

function bulkIsBlacklisted(address[] memory accounts, bool state) external onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        isBlacklisted[accounts[i]] = state;
    }
}
```

- Recommendation:
 - Considered as good practice is to exclude the Liquidity pair address from ones that can be blacklisted.



FOUND THREATS

⚠ Medium Risk

Owner can set buy fees up to 15% and sell fees up to 25%.
Combined buy+sell=40%.

```
function UpdateBuyTaxes(  
    uint256 _marketing,uint256 _buyback,  
    uint256 _liquidity,uint256 _dev, uint256 _gamefi  
) external onlyOwner {  
    taxes = Taxes(_marketing, _buyback,_liquidity, _dev, _gamefi);  
    require((_marketing + _buyback + _liquidity + _dev + _gamefi) <= 15, "Must keep fees at 25% or less");  
}  
  
function SetSellTaxes(  
    uint256 _marketing,uint256 _buyback,  
    uint256 _liquidity,uint256 _dev,uint256 _gamefi  
) external onlyOwner {  
    sellTaxes = Taxes(_marketing, _buyback,_liquidity, _dev, _gamefi);  
    require((_marketing + _buyback + _liquidity + _dev + _gamefi) <= 25, "Must keep fees at 25% or less");  
}
```

- Recommendation:
 - Considered as good tax deduction practice is buy and sell taxes combined not to exceed 25%.



FOUND THREATS

⚠ Medium Risk

Owner can change max transaction limit, but can't lower it than 10 million tokens (0.01% of total supply).

```
function updateMaxBuyTxLimit(uint256 maxBuy) external onlyOwner {
    maxBuyLimit = maxBuy * 10**decimals();
    require(maxBuy >= 10_000_000, "Cannot set max buy amount lower than 10 Millions tokens");
}

function updateMaxSellTxLimit(uint256 maxSell) external onlyOwner {
    maxSellLimit = maxSell * 10**decimals();
    require(maxSell >= 10_000_000, "Cannot set max sell amount lower than 10 Millions tokens%");
}
```

- Recommendation:
 - Considered as good transaction limitation practice is each transaction limit to be higher than 0.1% of total supply.



⚠ Low Risk

Owner can set cooldown between sells up to 60 seconds.

```
function updateCooldown(bool state, uint256 time) external onlyOwner {
    coolDownTime = time * 1 seconds;
    coolDownEnabled = state;
    require(time <= 60, "cooldown timer cannot exceed 5 minutes");
}

function _transfer(
    address sender,
    address recipient,
    uint256 amount
) internal override {
    .....
    if (sender != pair && !exemptFee[recipient]
    && !exemptFee[sender] && !_liquidityMutex) {
        .....
        if (coolDownEnabled) {
            uint256 timePassed = block.timestamp - _lastSell[sender];
            require(timePassed >= coolDownTime, "Cooldown enabled");
            _lastSell[sender] = block.timestamp;
        }
    }
    .....
}
```

Owner can withdraw tokens from the contract.

```
function rescueBNB(uint256 weiAmount) external onlyOwner {
    payable(devWallet).transfer(weiAmount);
}

function rescueBSC20(address tokenAdd, uint256 amount) external onlyOwner {
    IERC20(tokenAdd).transfer(devWallet, amount);
}
```




RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

Stranger Things

GOOD PRACTICES FOUND

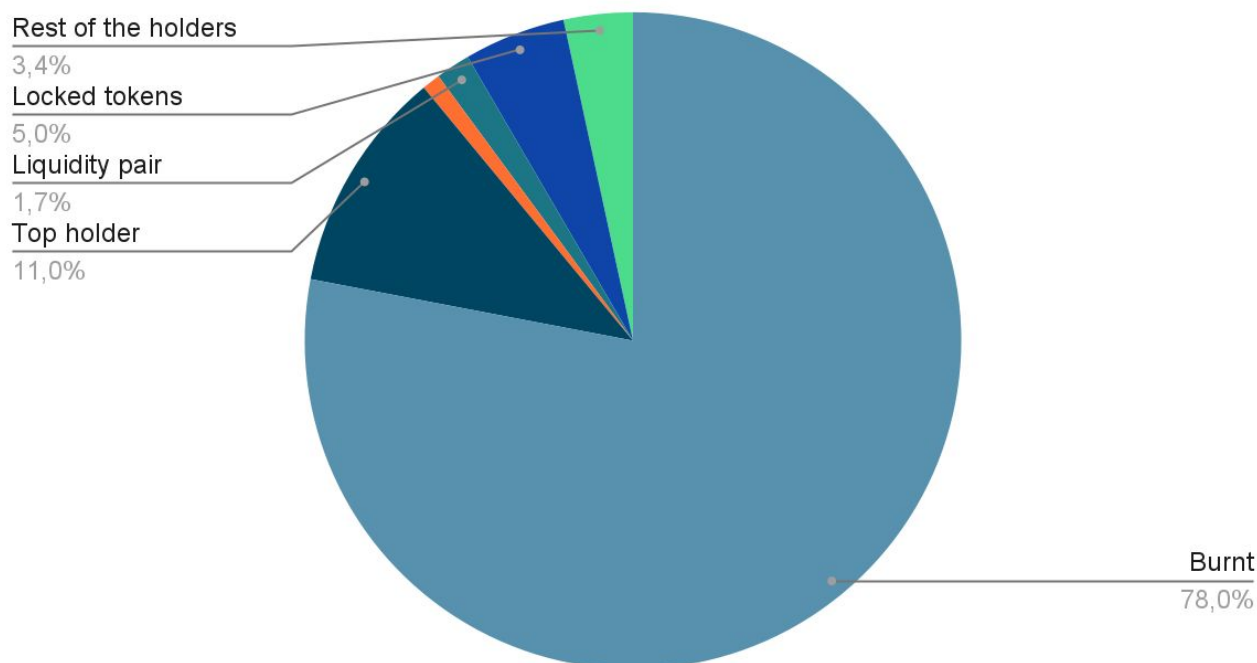
- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract



Current stats

- 78% - Burnt
- 11% - Top holder
- 0.9% - Next top 5 holders
- 1.7% - Liquidity pair
- 5% - Locked
- 3.4% - Rest of the holders

Tokens distribution



! Conclusion:

If top wallet (GameFi) sells, this will lead to significant price change of above -80%.

Second top wallet (owner's) with 5% holdings unlocks on June 29, 2022 12:00:00 AM GMT. If the owner decides to sell, this will again lead to significant token's price drop.



THE TEAM

The team has privately doxxed to SPYWOLF by completing the following KYC requirements:

- ID Verification
- Video statement
- Video interview with devs
- Owner's wallet verification

KYC INFORMATION

Issuer

SPYWOLF

Members KYC'd



KYC Date

June 28, 2022

Format

Image

Certificate Link

https://github.com/SpyWolfNetwork/KYCs/blob/main/june/KYC_STRANGERTHINGSTOKEN_0x42db73ed3c94c635026cf378eeb5dec7f1b12784.png





WEBSITE

Website URL

<https://strangerthingstoken.io/>

Domain Registry

<http://key-systems.net>

Domain Expiration

Expires on 2023-06-22

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page, template design, appropriate color scheme.

Content

Informative, no grammar mistake found.

Whitepaper

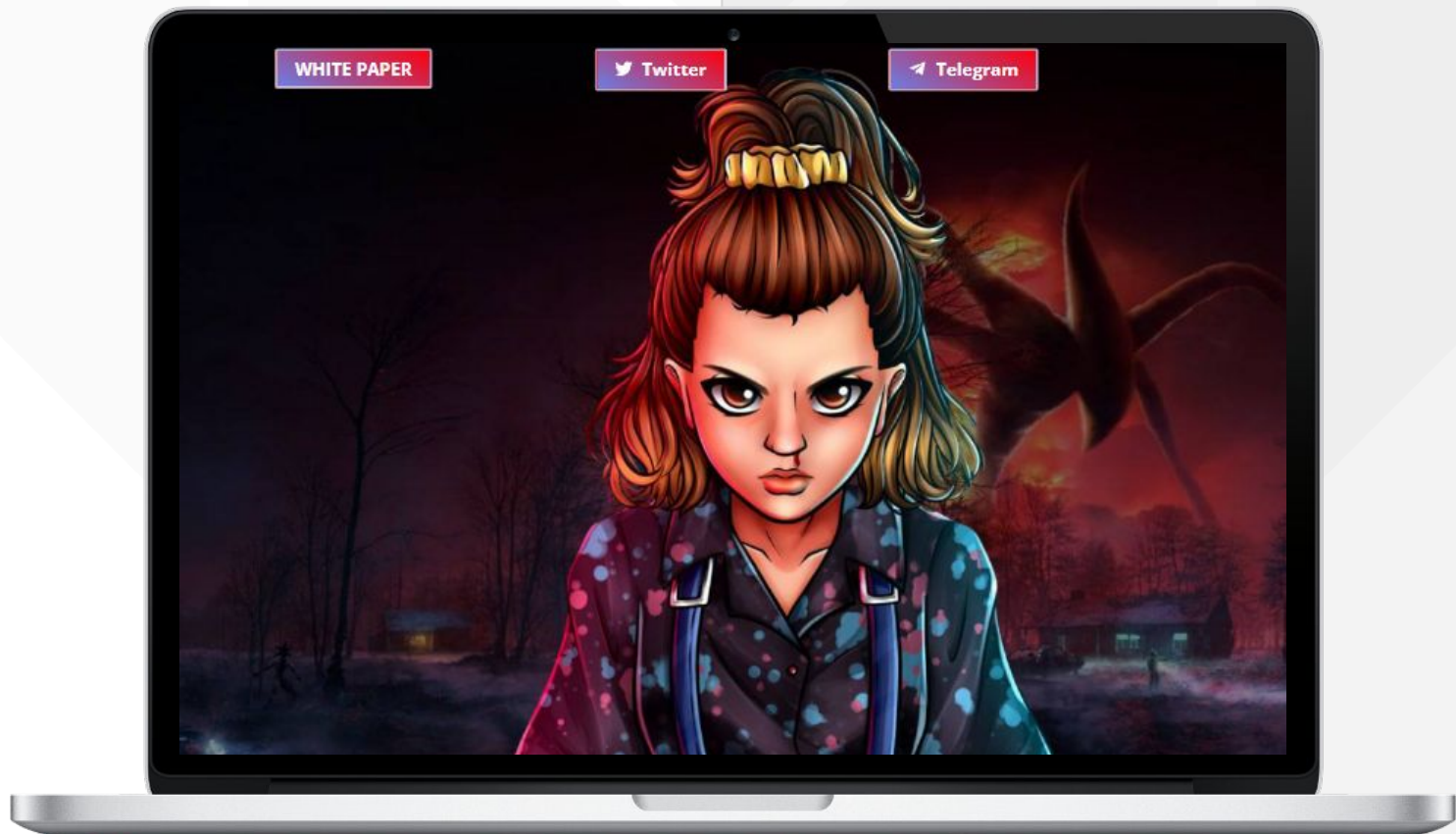
Explanatory, no grammar mistakes.

Roadmap

Yes, goals set at 6 phases without time frames.

Mobile-friendly?

Yes



strangerthingstoken.io

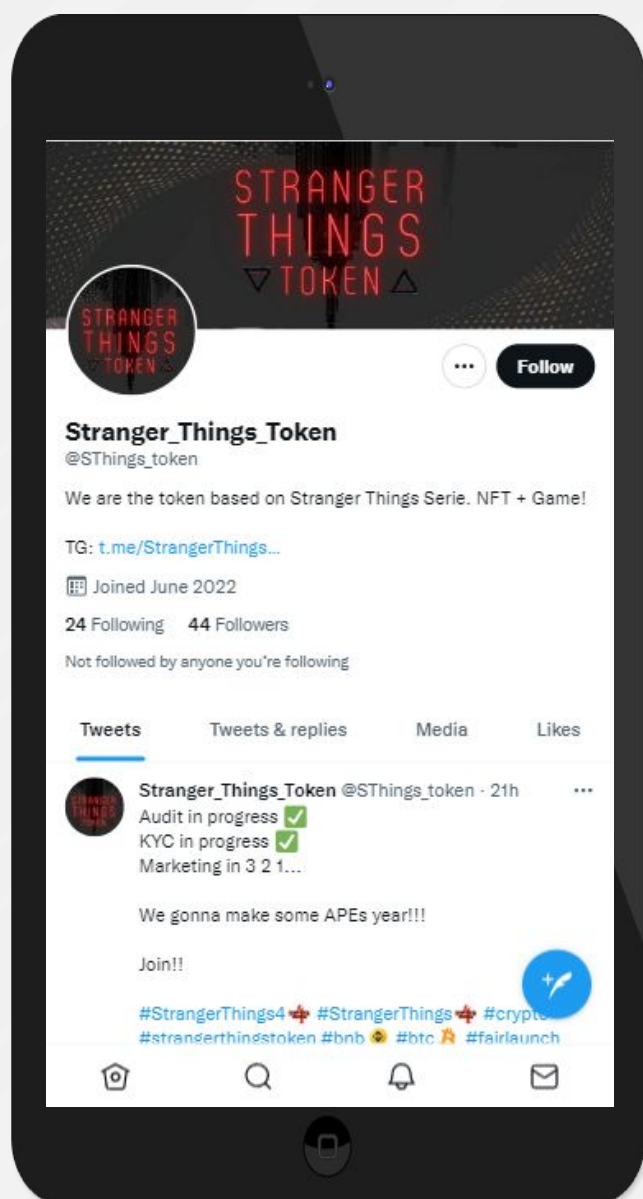


SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

Project's social media presence is relatively new (few days old). The mods are active and there's a significant number of organic interactions on Telegram.



Twitter

@SThings_token

- 54 followers
- Active
- Recently created, 3 posts in total



Discord

- Not available



Telegram

@StrangerThingsTokenIo

- 1 384 members
- Active mods
- Significant number of organic interactions



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.